

**SUBJECT:** Mission Services Customer Forum (MSCF) Meeting

**DATE:** November 21, 2002

**PLACE:** Goddard Space Flight Center, Building 3, Auditorium

**TIME CONVENED:** 1:00 p.m.

**TIME ADJOURNED:** 3:55 p.m.

**ATTENDANCE:** The list of attendees is located at the back of the minutes

**NOTE:** Referenced presentations are located within the MSCF website at [http://npas19.Honeywell-tsi.com/mscf\\_2002052/mscf\\_presentations.html](http://npas19.Honeywell-tsi.com/mscf_2002052/mscf_presentations.html)

## **I. INTRODUCTION**

Mr. Al Levine (NASA/GSFC) convened the fourth Mission Services Customer Forum (MSCF) on November 21, 2002, at the Goddard Space Flight Center (GSFC), Building 3 Auditorium. Mr. Levine welcomed the attendees, both those present in the auditorium and those attending via teleconference. Mr. Levine discussed the agenda and stated that the MSCF is a good forum for providing information on what is happening currently and what will happen in the future. Mr. Levine stated that due to the CSOC recompile, there were issues that could not be relayed at this meeting. Mr. Levine stated that if there was anything that needed to be discussed outside of this meeting, please email or call him.

## **II. OPEN FLOOR – CUSTOMER CONCERNS/ISSUES**

- a. Mr. R. Schonbachler (NASA/GSFC) provided a presentation on the TDRSS name switchover (refer to website for presentation, *TDRSS Name Switchover*) beginning with a description of the current naming convention and the rationale for the new naming convention. Mr. Schonbachler stated that the new naming convention was necessary to facilitate scheduling. The system can only respond to one name. This new naming convention will be limited to three digits, which will represent the satellite's current longitudinal position. Information from the MOCs on issues related to this name change, and what will take to resolve them, is needed ASAP. Mr. Glass stated that 10 years ago HST could not change, but it can now. Mr. Glass stated that he had sent an email requesting information on the impact this would cause the sites. If there is no response it will be assumed that everything is okay. Prompt respond to Mr. Glass' email and this presentation is imperative, because February 3, 2003 is the scheduled date for the switchover. Mr. K. Tasaki asked how many had responded and what the responses were. Mr. Glass stated that about 50% have responded as ready. (AI: MSCF-11-21-02). Mr. Glass will put this information on the website for Mission Directors to see. Mr. K. Tasaki asked for clarification on whether this is a cutover or transition. Mr. Schonbachler stated that this was a cutover. Mr. K. Tasaki asked if there was a NAM associated with this and stated that one was needed, but it can wait.

- b. Mr. Curtis Emerson (NASA/GSFC) provided a presentation on the Security Issues (refer to website for presentation, *Security Issue*) beginning with the overview of the authority for the IT security and what organization was in charge of this area. Mr. Emerson described the National Agency Check (NAC) information for all personnel and how this IT security was put into place. Mr. Emerson described the special training for System Administrators and the warning banner to be installed. An approval has been received to scan networks and encrypt data. IT Security Plans, Risk Assessments, and Contingency Plans need to be completed. Mr. C. Emerson also provided contact information to the audience for further questions and concerns.

### **III. WALK-ON ISSUES**

Mr. Kevin McCarthy (NASA/GSFC) provided a presentation on the CSOC Option (refer to website for presentation, *Walk-on Issues*) beginning with NASA's decision not to exercise the CSOC option. Mr. McCarthy gave a brief overview of why this decision had been made and what the new rebid package might include. The strategy for the rebid is to issue separate work packages. Each field center could entertain bids on a multipackage or separate area. Mr. McCarthy stated that there were many items of discussion that he could not relay to this forum at this time and he was not at liberty to answer questions at this forum. He gave a brief overview of the schedule and announced that this schedule was very challenging. Mr. McCarthy stated that there is a list of FAQs on the NASA website. There would be an industry forum in the near future giving more details on the number of packages and the scope of the work packages. Mr. Tasaki asked if dates were already scheduled for the packages and the answer was that dates may be available by the end of December 2002.

### **IV. CURRENT ACTION ITEMS**

See Attached Action Items.

### **III. FEATURED TOPICS**

- a. Mr. Tom Gitlin provided a presentation on The Space Network Demand Access System (DAS) (refer to website for presentation, *The Space Network Demand Access System [DAS]*) beginning with an overview of the DAS functions and services. DAS expands the TDRSS and SN services. Mr. Gitlin stated that there are 2 customer classes. One is a dedicated customer with a guaranteed service and one is a non-dedicated customer, which is an on-demand basis and is less expensive. Mr. Gitlin described the 3 different customer operations scenarios: continuous scenario, intermittent/on demand and the formation flying. DAS customer support uses several systems and formats based on familiar platforms and standards. The presentation provides a list of manifested customers committed to DAS. SWIFT is first to use DAS and is currently in testing; AQUA has, since launch, been using MA capability for emergency notifications (911 emergency service) to be quickly alerted to on-board s/c problems. A question was asked about the on-demand forward link. Mr. Gitlin stated that was

in the original project, but it was cut out early on. Mr. Gitlin stated that there may be funding to research the forward link in 2003 again.

- b. Mr. Blake Lorenz provided a presentation on U.S. Strategic Command Products and Services NASA USSTRATCOM Cooperation (refer to website for presentation, *U.S. Strategic Command Products and Services NASA USSTRATCOM Cooperation*) beginning with the overview of the formation of the National Aeronautics and Space Act of 1958 and the applicable interagency agreements. Mr. Lorenz stated that the U.S. strategic Command was formally known as NORAD. The command is responsible for the early warning and defense against missile attacks and defending against weapons of mass destruction. Mr. Lorenz stated that every launch uses STRATCOM. Mr. Lorenz stated that STRATCOM provides data to NASA and NASA provides the data to the world. Mr. Lorenz stated that if there is a request for STRATCOM support, they should go through him since he is the liaison and has the contacts. Mr. Lorenz gave an overview of what NASA does for STRATCOM and what STRATCOM does for NASA. Mr. Lorenz stated that the agreement was being rewritten, but had not been finalized due to the reorganizations.

#### **IV. SYSTEMS STATUS UPDATE**

- a. Mr. Roger Clason provided a presentation on Ground Network (refer to website for presentation, *Ground Network*) beginning with an overview of the Ground Network, locations, and assets of each. Mr. Clason stated that he could not relay much about the future evolution of the network due to the new procurement. Mr. Clason discussed the sub-orbital services and which locations were able to handle what services. Mr. Clason discussed what future trends he could. The main objectives were to keep the budget flat and minimize costs. Customer requirement trends were discussed along with service provider trends. Details on these trends are being worked. Mr. Clason stated that Landsat will go to private industry, NOAA will use the Norway station, and NPOESS will have a new dedicated network. The Space Shuttle still provides a solid base.
- b. Mr. Keiji Tasaki provided a presentation on the Space Network (refer to website for presentation, *Space Network*) beginning with an organization chart description. Mr. Tasaki stated that the Space Network is highly reliable. The NASA customer is not charged for services. Mr. Tasaki described the ground segment (WSC and Guam). Mr. Tasaki discussed the first generation TDRS and then TDRS H, I, and J. Mr. Tasaki presented a chart on TDRS locations and stated approximately 10,000 events were supported each month. A chart was presented on the customer support by TDRS E, W, and S. Mr. Tasaki stated that the Code S mission SN services were steady. TDRS H was in place April 2002. Although TDRS I was launched March 2002 it continues to undergo testing, which is going well. The TDRS-J launch is scheduled for December 4, 2002.

- c. Mr. **K. Tasaki** provided a presentation on the implementation of a high data rate Ka-band data service for the Space Network (refer to website for presentation, *Implementation of a High Data Rate Ka-Band Data Service for the Space Network*) beginning with an overview of the service. **K. Tasaki** stated that at this time there is no capability for Ka-band service above 300 Mb/sec. Mr. Tasaki stated that the presentation should be changed to reflect that Code 450 has initiated the implementation of an end-to-end Space Network Ka-band data service by 2005 and should have the capability by 2006. The S- and X-band are crowded and Ku-band is a secondary frequency allocation for NASA. **K. Tasaki** stated that the documentation is scheduled to be completed by 2003 and it is felt this is an optimistic schedule.
- d. Mr. Tim Thompson provided a presentation on the Flight Dynamics Facility (refer to website for presentation, *Flight Dynamics Facility*) beginning with a discussion on the DSN interfaces with the FDF. Mr. Thompson stated that the Type 6 Vectors would be delayed until at least June 2003. A question was asked if the FDF did image mapping and Mr. Thompson stated no. Mr. Thompson discussed the planned move of the FDF to Building 13, which now awaits funding.
- e. Ms. Cathy Barclay provided a presentation on the DSMC (refer to website for presentation, *Data Service Management Center [DSMC]*) beginning with an overview of the project. Ms. Barclay stated that the transition is wrapping up and should be complete shortly. Personnel levels have shrunk from 120 to approx. 70. Ms. Barclay stated there have been substantial savings and by 2008 the savings should be \$30M. Ms. Barclay stated that the proficiency experts have met their goal. Ms. Barclay also stated that this whole transition has not been as simple as it sounded (just pick it up from GSFC and put back down at WSC), resulting in some key lessons learned (especially regarding security). All but one of the 6 transitions have been finished; the final Dev and Test System is scheduled for November 26. Ms. Barclay stated that if anyone was interested in lessons learned, please give her a call. She thanked everyone in the SN and GN customer community for their support and cooperation during this transition.
- f. Mr. Ken Dolan provided a presentation on the Code Y Missions (refer to website for presentation, *Code Y Missions*) beginning with an overview of the mission status for Code Y. Mr. Dolan stated that Aqua has been transferred to ESMO. Terra is approaching 3 years of operations while TRMM is nearing 5. ERBS has been transferred to the Space Operations Institute. EO-1 is in nominal operations and the budget is unknown at this time. Landsat-7 is in nominal operations and SAC-C has used contingency services. GRACE, QuikScat, and SeaWiFS are in nominal operations at this time. Mr. Dolan outlined known future missions, such as ICESat, SORCE, and Aura. Mr. Dolan stated there are several concerns at this time. There are LEOP orbit conflicts, which impact meeting level-1 requirements and they hope to identify these and develop alternatives. Mr. Dolan stated that SN reports mission minutes lost and GN reports service loss of minutes. Budget planning is also a concern.

- g. Mr. Ted Sobchak provided a presentation on Human Spaceflight (refer to website for presentation, *Human Spaceflight*) beginning with an overview of the Space Shuttle Manifest. Mr. Sobchak detailed the ISS assembly schedule along with items of interest. Mr. Sobchak noted that the STS-107 Hitchhiker was an exciting mission with a special payload (CANDOS). Mr. Sobchak presented a graphic of the CANDOS support for the STS-107 mission. Mr. Sobchak noted that a scheduling plan is in place to minimize the real-time impacts on other customers.
- h. Ms. Karen Snyder provided a presentation on Documentation Readiness (refer to website for presentation, *Documentation Readiness*) beginning with an overview of the Code 450 CCB/CSOC Customer Services area. Ms. Snyder provided an organization chart. Ms. Snyder emphasized the importance of Documentation and how critical the updating of essential documents was to the missions. Ms. Snyder outlined the different documents and the timeframe in which they should be reviewed and updated. Ms. Snyder detailed the scheduling of stages of documentation, (creating, reviewing, boarding, and approving). There was a slide on the data management support available for CM documentation and contact information.
- i. Mr. Al Levine and Dave Joesting provided a presentation on Loading/Resource Issues (refer to website for presentation, *Loading/Resource Issues*). Mr. Levine began with an overview of the GN Mission Model (2002 through 2005) and the SN Mission Model (2002 through 2009). Mr. Levine stated that things seem to be fairly steady. Mr. Levine stated that from a loading standpoint GSFC could meet support commitments, although occasional conflicts will require workaround. Forward planning is needed and that last-minute requirements can (and do) cause problems. December will be very busy and we will have to negotiate schedules. ADEOS is asking for occasional support. TDRS-J/ CHIPSAT have already been worked out. Launch freezes on individual antennas can create impacts with on-orbit customers. The final statement was to use TUT as much as possible to help avoid impacts.
- j. Mr. Keiji Tasaki presented a final statement on New Initiatives. Mr. Tasaki discussed the TDRS project approval for the next decade and stated that a Formulation Manager was needed for this project. Mr. Tasaki stated that there would be an Optical Communication System at JPL. The TDRS around Mars project has been approved and Ken Ford (Code 420) will be the Formulation Manager.

## **V. NEW ACTION ITEM(s)**

One Action item was assigned at this meeting:

ACTION ITEM: MSCF-11-21-02

ASSIGNEE(S): Jeff Glass

**ACTION: TDRS RENAMING ISSUE**

List the projects that have responded as being ready or not ready to transition to the new TDRS renaming convention. Put this information on the website ([http://npas19.Honeywell-tsi.com/mscf\\_2002052/mscf\\_presentations.html](http://npas19.Honeywell-tsi.com/mscf_2002052/mscf_presentations.html)) for Mission Directors to review.

STATUS: NEW

**V. SUMMARY**

Mr. Al Levine summarized the meeting and thanked all participants and personnel associated with the successful presentation of this forum.

**VI. LIST OF ATTENDEES:**

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<i><b>Action Item</b></i>	<i><b>Assignee(s)</b></i>	<i><b>Action</b></i>	<i><b>Status</b></i>	<i><b>Progress</b></i>
MSCF-11-15-03	Michele Crizer (GSFC/LandSAT-7)/ John Grassel (GSFC/CSR)	Update DMR and PSLA for Landsat-7.	On- going	The LANDSAT-7 project has updated the PSLA. Progress of the DMR update is being checked. <b>Contact CSR</b>
MSCF-11-15-04	All Projects	Ensure issues are raised sufficiently early to ensure that adequate time is available to address mission concerns (i.e., compatibility testing, requirements, etc.) and thus possibly avoid a need to form TIGER teams.	On- going	This action item is for information only; the activity is ongoing.
MSCF-11-15-08	Service Providers	Provide a briefing for the next MSCF meeting.	On- hold due to RFP	Completion of this action item is pending release of NASA RFPs related to the CSOC recompetes and possibly commercialization.  The network service providers have expressed interest in presenting at the MSCF.

<i><b>Action Item</b></i>	<i><b>Assignee(s)</b></i>	<i><b>Action</b></i>	<i><b>Status</b></i>	<i><b>Progress</b></i>
MSCF-02-21-02	NISN (S. Douglas), SN (K. Tasaki), & CSOC Engineering (R. Nguyen)	Meet and determine the current status of the 4800-bit block versus IP problem, and how to move forward toward a solution.	On-going	<ol style="list-style-type: none"> <li>Set up a test lab to demonstrate a new NASA wide data service based on CCSDS SLE. <ul style="list-style-type: none"> <li>CSOC Houston under a SODA task procured and installed an interim SLE provider system at the Wallops Telemetry Development Microwave System Laboratory (Bldg E134) with following capabilities: <ul style="list-style-type: none"> <li>CCSDS SLE data services based on Avtec Telemetry Command Processor</li> <li>Unframed Bit Stream data service over SLE based on Global Science and Technology R&amp;D Air Force Satellite Control Network (AFSCN) project</li> <li>Equipment was not connected to RF equipment or 5.4 Meter Antenna.</li> <li>All 7 tests ran successfully at rates under 500Kbs. However, anomalies were encountered when downlink throughput rose above 500 Kbs.</li> <li>They completed FY02 SLE provider and user data transfer testing using an interim SLE implementation at Wallops and Houston.</li> </ul> </li> </ul> </li> <li>Establish the infrastructure required for interoperability testing between NASA ground station at Wallops and the Air Force Satellite Control Network (AFSCN). <ul style="list-style-type: none"> <li>The effort to establish an infrastructure required for interoperability testing between NASA ground station at Wallops and the Air Force Satellite Control Network (AFSCN) is on-going.</li> </ul> </li> <li>CSOC/GSFC engineering is studying a possibility of transitioning front-end for ACE mission from Nascom Block interface to SLE. <ul style="list-style-type: none"> <li>CSOC/GSFC engineering is studying the impact for transitioning front-end equipment for Code S missions from Nascom Block interface to SLE. CSOC is coordinating with GMSEC to set up a SLE Service User in GMSEC lab for testing with SLE Service Provider at WFF.</li> </ul> </li> <li>Pending on funding availability in FY03, establish the infrastructure required for interoperability testing between NASA ground station at WSC and the Air Force Satellite Control Network (AFSCN). <ul style="list-style-type: none"> <li>Successful demonstration of new data service will promote the phasing out of Nascom block. Code 450 is having discussion leading to a position on new data service that would be used to phase out Nascom Block interface. Mr. Tasaki will contact Code 290 to include them and be proactive</li> </ul> </li> </ol>

<i><b>Action Item</b></i>	<i><b>Assignee(s)</b></i>	<i><b>Action</b></i>	<i><b>Status</b></i>	<i><b>Progress</b></i>
MSCF-02-21-04	DSMC (C. Barclay) and Network Service Manager (A. Levine)	Discuss and recommend a process to address Interference Management priorities.	Open	Interfere analysis is in progress.
MSCF-02-21-05	SN (K. Tasaki and R. Schonbachler)	Determine a timeframe for final conversion to the new TDRS naming convention for the NCC/DSMC scheduling system.	Open	In process. Potentially impacted customers are being contacted to determine the their current status regarding conversion. The issue is being discussed at the 11/21/02 MSCF.  Update: The cut-over date is set for 2/3/2003. A NAM is being drafted. Status information regarding project readiness will be posted on the MSCF website.
MSCF-11-21-01	Jeff Glass	Obtain and post TDRSS Naming Convention information and list the projects that have responded to surveys.	Open	New - Work is now in progress